Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>6/2/06</u>.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-16</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1,8,11 and 16</u> is/are rejected.

7)☒ Claim(s) <u>2-7,9,10 and 12-15</u> is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>29 September 2000</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some *   c)☐ None of:

      1.☒ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   This office action is in response to amendment dated: 6/02/06. Claims 1-16

are pending. Based on this amendment , claims 1-2, 8, 11, and 16 are amended.

2.   A request for continued examination under 37 CFR 1.114, including the fee

set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since

this application is eligible for continued examination under 37 CFR 1.114, and the

fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous

Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's

submissions filed on 6/25/01 has been entered.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for

all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically
> disclosed or described as set forth in section 102 of this title, if the
> differences between the subject matter sought to be patented and the prior art
> are such that the subject matter as a whole would have been obvious at the
> time the invention was made to a person having ordinary skill in the art to
> which said subject matter pertains. Patentability shall not be negatived by
> the manner in which the invention was made.

4.   Claims 1, 8, 11 rejected under 35 U.S.C. 103(a) as being unpatentable over

Forslow (US Patent No. 6,608,832), hereinafter, Forslow, in view of **Titmuss** (US

Patent No. 6,522,883), further in view of **Yang** (US Patent Application No.

2004/0095939).

For claims 1, 8 11 and 16, Forslow discloses "a method of allocating data

transmission resources **(refer to "a base station controller (BSC) 34 which**

manages the allocation and deallocation of radio resources", fig. 2, refer to

col. 2 lines 50-55), in a packet-switched telecommunications system **(51 in fig. 2)**

including a terminal 12 and a fixed network 35 **(PSTN , refer to col. 2 lines 18-20**

and lines 60-63), to which an operational entity defined for defining resources for

a radio bearer **(refer to "Mobile communication resources for the selected**

bearer and corresponding quality of service parameters may be reserved in

advance for each application flow (the resource reservation approach), refer

to col. 5 line 65-col. 6 line 15) , the method comprising steps in order :

- defining a compression method of header fields in data

    packets used on the radio bearer **(Forslow discloses, "The**

    subnetwork dependence convergence protocol (SNDCP)

    provides segmentation and compression of headers and

data between the mobile station and the SGSN in the
GPRS. refer to col. 12 lines 28-34), and

- defining the radio bearer resources for the terminal on the
basis of an application used by the terminal said radio bearer
such manner (Forslow discloses, ""the selection of a
particular type of bearer and mapping of quality of service
parameters, refer to col. 12 lines 35-37, further, discloses,
"Mobile communication <u>resources</u> for the selected <u>bearer</u>
and corresponding quality of service parameters may be
reserved (defined) --- for each application flow (the
<u>resource</u> reservation approach, refer to col. 6 lines 7-15),
that said resources also comprise <u>the capacity required</u> by
the selected compression method of header fields in data
packets (Refer to "a Base Station System GPRS Protocol
(BSSGP) is a flow control protocol, which allows the base
station system to start and stop PDUs sent by the SGSN.
This ensures that the BSS is not flooded by packets in case
the <u>radio</u> link capacity is reduced", refer to col. 4 lines 34-
39).

Forslow does not disclose explicitly the following limitation, which

are disclosed by Titmuss and Yang, as follows:

- "that said resources also comprise the capacity required by the selected

compression method of header fields in data packets", **(Titmus discloses**

"technical capacities collectively available from the plurality of

resources with which it is associated", refer to col. 20 lines 35-40).

- defining a compression method of header fields (**Yang discloses, "a**

protocol is defined to compress the RTP/UDP/IP headers and a

reduction to between 2 to 5 bytes can be achieved", refer to

paragraph 0018. This results in saving bandwidth or capacity which

is more than the required bandwidth)

It would have been obvious to the person of ordinary skill in the art at the

time of the invention to have resources comprising the capacity required by the

selected compression method of header fields in data packets, as taught by

Titmuss; further, defining a compression method of header fields, as taught by

Yang. The motivation to do so being that it provides optimization of transmission

resources and reduction of bytes..

Allowable Subject Matter

5.   Claims 2-7, 9-10, and 12-15 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form

including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6.   Applicant's arguments with respect to claims 1-16 have been considered ,

but they are not persuasive.

        a.   Applicant argues "Forslow does disclose or suggest defining a

compression method of header fields data packets used on the radio bearer as

recited claim 1. Applicant claims defining a compression method and then defining

the radio bearer resources. This is not taught by Forslow. The Examiner makes the

statement that in Forslow, the header of each information packet in an application

flow may specify a generally recognized class of service, which when read,

determines whether a circuit-switched bearer a packet-switched bearer carries that

packet, referring Col. 6, lines 10-15. However, neither this statement by the

Examiner, nor referred section Forslow, discloses "defining" compression method

of header fields in data packets used on the radio bearer.

        In response, examiner states that **Yang discloses "Yang discloses, "a**

protocol is <u>defined to</u> <u>compress the RTP/UDP/IP headers</u> and a reduction to

between 2 to 5 bytes can be achieved", refer to paragraph 0018. This results in

saving bandwidth or capacity which is more than the required bandwidth.

        b.   Applicant argues "The passage referred to by the Examiner does not

disclose or suggest header field compression methods. Rather, this section only

states that a header field may specify recognized class of service." A uclass of

service" is not a "compression method of header field" as claimed by Applicant. In

Forslow, header, when read, defines whether circuit-switched bearer a packet-

switched bearer carries that packet. (the differential services approach) This is not

the same as "defining" a "compression method" of "header fields". The only

section of Forslow that relates to the compression of header fields in Col. 12 lines

29-34. This section discusses how the GPRS modem routes, an IP packet based on

its header information. However, the radio bearer is defined first- bearer selection

and then the header compression method in the subnetwork dependence

convergence protocol. (SNDCP). (Col. 12, lines 11-22).

        In response, examiner states that Forslow discloses "segmentation and

compression headers, refer to col. 12 lines 30-32. Further, examiner states that

Forslow discloses in continuation, "selection of particular type of bearer and

mapping of quality of service parameters may be performed", refer to col. 12 lines

36-38. Examiner, further states that **Yang discloses, "a protocol is defined to**

compress the RTP/UDP/IP headers and a reduction to between 2 to 5 bytes

can be achieved", refer to paragraph 0018. This results in saving bandwidth

or capacity which is more than the required bandwidth".

It is logical to compress header first in order to save bytes and then

evaluate/define radio bearer resources which comprise the capacity required by the

defined compression method of header field.

c.   Applicant argues, Claim 1 recites defining the radio bearer resources

for the terminal where the resources comprise the capacity" required by the

"defined" compression method of header fields. This is not disclosed by Forslow.

In Forslow, the GGSN selects the packet-switched or circuit-switched bearer. As

will be generally understood, in a packet-switched bearer, packets are individually

routed between nodes data links, which could also be shared by other nodes. In

circuit-switching, a dedicated connection is set up between two nodes for their

exclusive use. In Forslow, after selection of the packet-switched or circuit-

switched bearer, the GGSN can select coding or compression rates. This is

different from what is claimed by Applicant's where first the "compression

method" header fields is defined, and then the "radio bearer resources" are defined.
This is not disclosed suggested by Forslow.

In response, examiner discloses, " **Titmus discloses "technical <u>capacities</u>
collectively available from the plurality of <u>resources</u> with which it is
associated", refer to col. 20 lines 35-40.**

AS explained earlier, examiner, further states that Forslow discloses
"segmentation and compression headers, refer to col. 12 lines 30-32. Further,
examiner states that Forslow discloses in continuation, "selection of particular type
of bearer and mapping of quality of service parameters may be performed", refer to
col. 12 lines 36-38. Examiner, further states that **Yang discloses, "a protocol is
defined to <u>compress the RTP/UDP/IP headers</u> and a reduction to between 2 to
5 bytes can be achieved", refer to paragraph 0018. This results in saving
bandwidth or capacity which is more than the required bandwidth".**

It is logical to compress header first in order to save bytes and then
evaluate/define radio bearer resources which comprise the capacity required by the
defined compression method of header field.

<u>In light of above explanation, arguments by applicant are not
persuasive.</u>

Conclusion

7.   Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Inder P. Mehra whose telephone number is 571-

272-3170. The examiner can normally be reached on Monday through Friday from

8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax

phone number for the organization where this application or proceeding is assigned

is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Inder Pal Mehra 6/26/06
Inder P Mehra
Examiner
Art Unit 2617

JOHN PEZZLO
PRIMARY EXAMINER